

### CONSTRUCTION DETAILS

1. INSTALL 27 FT. STEEL POLE WITH A 64 FT. MAST ARM AND SIGNAL HEADS, A 15 FT. LIGHTING ARM W/250 WATT HIGH PRESSURE SODIUM LUMINAIRE, A POLE MOUNTED CABINET WITH CONTROLLER, TWO 3 INCH SCHEDULE 80 PVC CONDUIT BENDS, 1 INCH GALVANIZED RISER, CONCRETE PAD, 1 1/4 INCH GALVANIZED RISER, PHOTOCELL, GROUND ROD, FOUNDATION, SIGNS, AND GROUT.
2. INSTALL 3 INCH PVC SCHEDULE 80 CONDUIT - TRENCHED.
3. INSTALL PROPOSED HANDHOLE AND GROUND ROD.
4. PROPOSED SERVICE FEED BY ALLEGHENY POWER.
5. REMOVE EXISTING STRAIN POLES AND OTHER SIGNAL EQUIPMENT.

### EQUIPMENT LIST A.

#### EQUIPMENT TO FURNISHED BY THE STATE

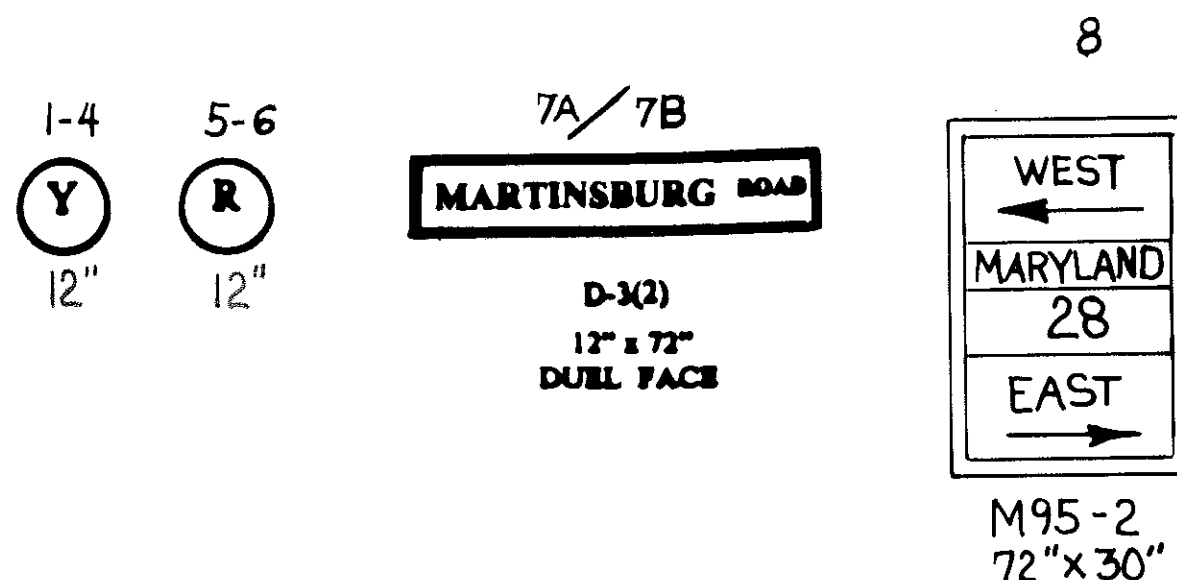
ITEM NO.	QUANTITY	DESCRIPTION
9012	6 EA	(MAST ARM MOUNT) 12" 1-WAY, 1-SECTION SIGNAL (ALUMINUM)
9080	1 EA	CABINET INTERSECTION MONITOR, SIZE 5
9087	1 EA	CONTROLLER ASC II W/ TELEMETRY
9090	24 SF	FLAT SHEET ALUMINUM SIGN- BLUE OR GREEN
	-1 EA	M95-2 (72" X 30") POLE MOUNTED
	-1 EA	D-3(2) (12" X 72") DUEL FACE, MAST ARM MTD.
9092	1 EA	INTERSECTION MONITOR 2 W/ BATTERY BACKUP
9107	1 EA	SINGLE MAST ARM POLE 27 FT. 64 FT. MAST ARM, W / ANCHOR BOLTS

### EQUIPMENT LIST B.

#### EQUIPMENT TO BE FURNISHED & INSTALLED BY THE CONTRACTOR

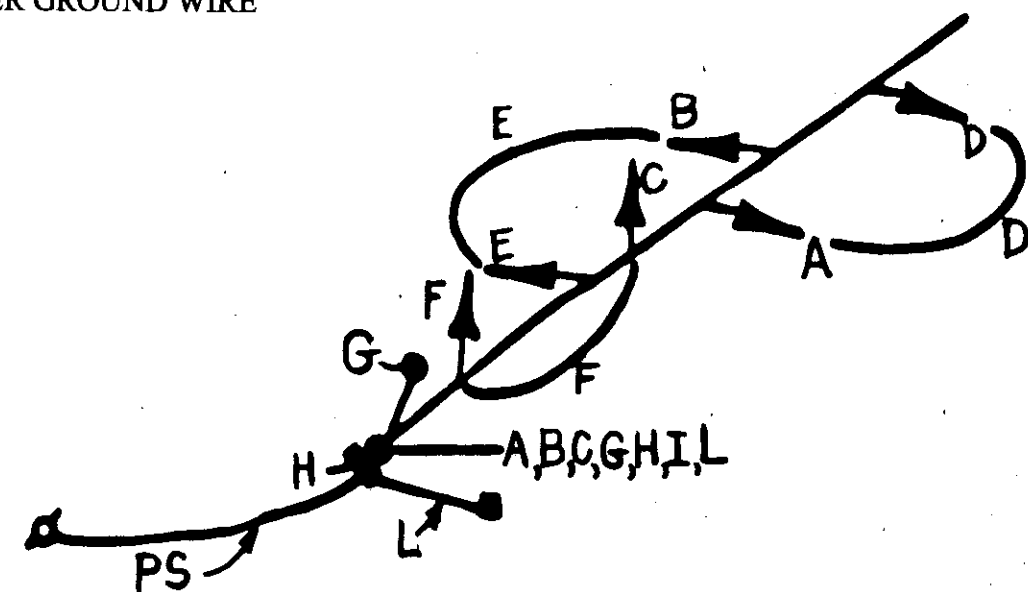
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	3 CY	TEST PIT EXCAVATION
8001	5 CY	FURNISH & INSTALL CONCRETE FOR SIGNAL FOUNDATION
8011	6 EA	INSTALL SIGNAL HEAD (ANY TYPE)
8019	1 EA	INSTALL CONTROLLER CABINET- POLE MOUNT
8027	25 LF	FURNISH & INSTALL 3" SCH. 80 RIGID PVC CONDUIT - TRENCHED
8033	1 EA	FURNISH & INSTALL ELECTRICAL HANDHOLE
8034	1 EA	FURNISH & INSTALL GROUND ROD- 3/4" DIAMETER X 10 FT. LENGTH
8043	75 LF	FURNISH & INSTALL ELECTRICAL CABLE -3 CONDUCTOR (#14 AWG)
8044	75 LF	FURNISH & INSTALL ELECTRICAL CABLE -5 CONDUCTOR (#14 AWG)
8045	350 LF	FURNISH & INSTALL ELECTRICAL CABLE -7 CONDUCTOR (#14 AWG)
8046	130 LF	FURNISH & INSTALL ELECTRICAL CABLE -2 CONDUCTOR (#12AWG)
8048	50 LF	FURNISH & INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8049	30 LF	FURNISH & INSTALL ELECTRICAL CABLE -1 CONDUCTOR (# 4 AWG)
8053	24 SF	INSTALL OVERHEAD SIGN
8055	1 EA	FURNISH & INSTALL 250 WATT HPS LUMINAIRE W / PHOTOCELL
8056	1 EA	FURNISH & INSTALL LIGHTING BRACKET ARM (15 FT.) FOR TRAFFIC SIGNAL STRUCTURE
8057	2 EA	REMOVE & DISPOSE OF EXISTING FOUNDATION 12 INCHES BELOW GRADE
8060	1 EA	REMOVE & DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8065	30 LF	FURNISH & INSTALL 1" GALVANIZED RISER
8066	1 EA	FURNISH & INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240 V, 1 PHASE 3)
8074	1 EA	INSTALL STEEL POLE AND SINGLE MAST ARM

### PROPOSED SIGNALS & SIGNS



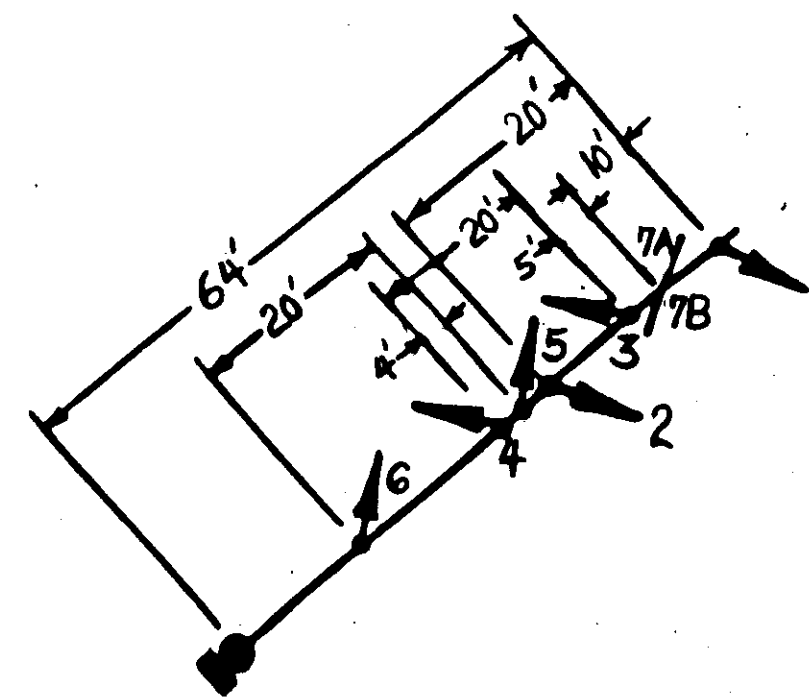
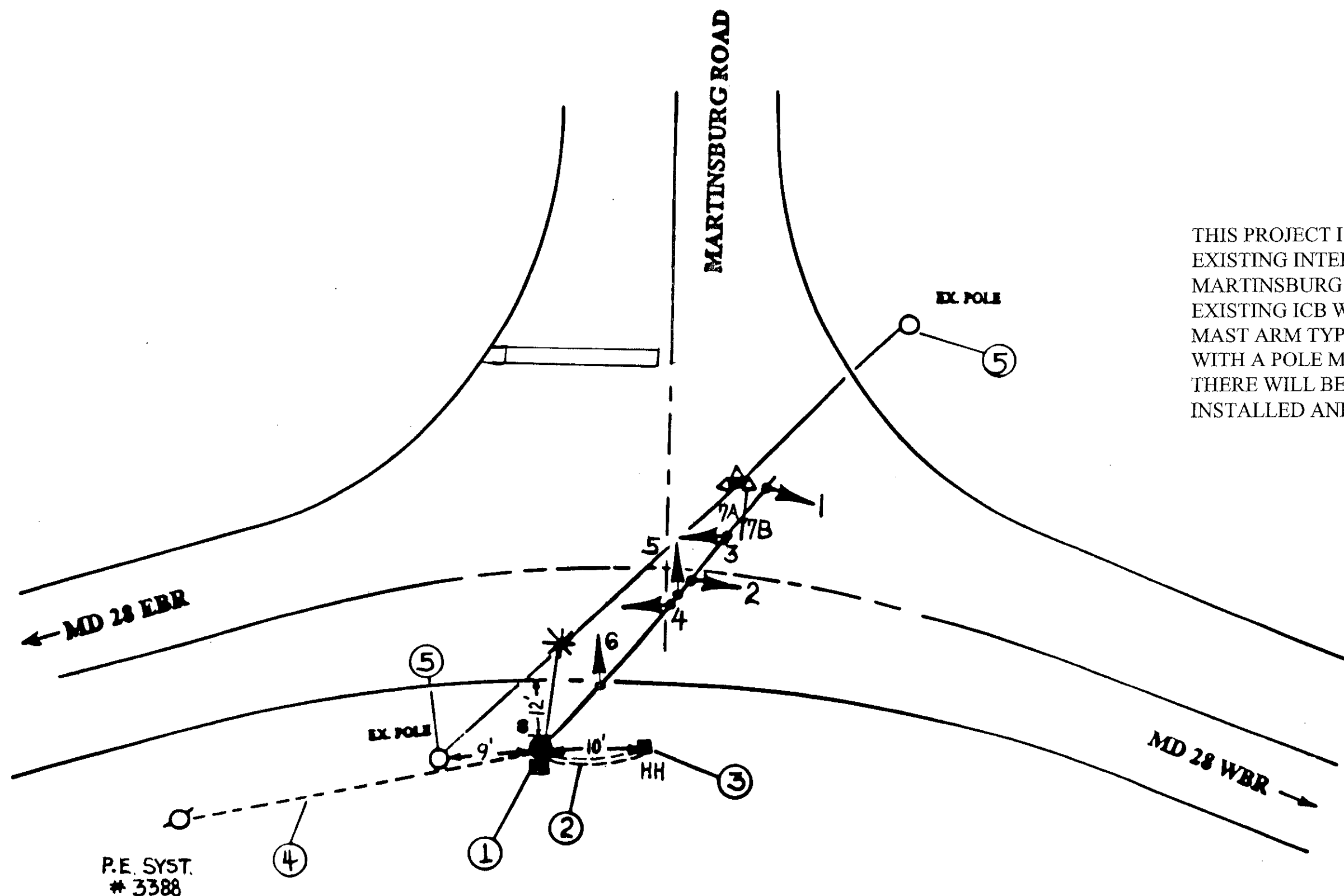
### WIRING DIAGRAM

A-C = 7 CONDUCTOR CABLE (NO. 14 AWG)  
D-F = 5 CONDUCTOR CABLE (NO. 14 AWG)  
G = 2 CONDUCTOR CABLE (NO. 14 AWG)  
H = 3 CONDUCTOR CABLE (NO. 14 AWG) - FOR PHOTOCELL  
I = 1 CONDUCTOR CABLE (NO. 4 AWG) - FOR SERVICE - 3 TIMES  
L = NO. 6 STRANDED BARE COPPER GROUND WIRE  
PS = PROPOSED SERVICE



### PROJECT DESCRIPTION

THIS PROJECT IS FOR THE COMPLETE RECONSTRUCTION OF THE EXISTING INTERSECTION CONTROL BEACON AT MD 28 AND MARTINSBURG ROAD IN MONTGOMERY COUNTY. THE EXISTING ICB WILL BE REMOVED AND THE NEW ICB WILL BE A MAST ARM TYPE WITH A 27 FT. POLE AND A 64 FT. ARM ALONG WITH A POLE MOUNTED CABINET AND PHOTOCELL. ALSO THERE WILL BE A LUMINAIRE WITH LIGHTING BRACKET ARM INSTALLED AND STREET NAME SIGNING.



MAST ARM DIMENSIONS

REVISIONS	APPROVALS	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION	
		MD. 28 AT MARTINSBURG ROAD	
		SIGNAL NO. 10/17/98	
		DRAWN BY: L. HARRIS	
		DES. BY: L. HARRIS	
		CHECK BY: D. DODA	
		SCALE: NONE	
		F.A.P. NO. AC-STPG-0005(68)E	
		S.A.A. NO. M0857A527B52	
		COUNTY: MONTGOMERY	
		PLAN SHEET NO. 3434	
		SHEET NO. 1 OF 1	